

Listing of Claims

1. (Currently amended) A movement input device for use on a touch screen of a portable electronic device comprising:
 - a fastening unit configured to secure the movement input device on the portable electronic device and having a top and bottom side, said fastening unit also being configured for placement over at least a part of the touch screen; and
 - a user input unit fastened to and extending through the fastening unit, wherein the user input unit comprises:
 - a user actuation part protruding from the top side of the fastening unit and being operable for actuation by a user for free angular movement with an angle of rotation around an axis (X) provided at least generally perpendicular to the top and bottom sides of the fastening unit; and
 - a touch screen contact part protruding from the bottom side of the fastening unit that is configured to contact the touch screen in a position where at least an angle of the contact position in relation to the axis corresponds to the angle of the user actuation part in relation to the axis, so that movement of the user input unit is detected on the touch screen.
2. (Previously presented) The movement input device according to claim 1, wherein the user actuation part and the touch screen contact part are joined together by a fastening part being fastened in the fastening unit while still allowing free movement round said axis.
3. (Previously presented) The movement input device according to claim 1, wherein the touch screen contact part comprises a pin configured to directly contact the screen so that a radial movement of the touch screen contact part from the axis X corresponds to a radial movement of the user actuation part.
4. (Previously presented) The movement input device according to claim 3, wherein the touch screen contact part further comprises a spring configured to force the pin in contact with the touch screen.

5. (Previously presented) The movement input device according to claim 1, wherein the touch screen contact part comprises a disc having a rim, which contacts the screen at a fixed distance from the axis of the screen upon actuation of the user actuation part.

6. (Previously presented) The movement input device according to claim 5, wherein the disc has parabolic shape.

7. (Currently amended) A portable electronic device comprising:

a body comprising a touch screen configured to detect inputs from a user on said screen; and

a movement input device comprising:

a fastening unit configured to secure the movement input device on the body and having a top and bottom side, said fastening unit also being configured for placement over at least a part of the touch screen; and

a user input unit fastened to and extending through the fastening unit, wherein the user input unit comprises:

a user actuation part protruding from the top side of the fastening unit and being operable for actuation by a user for free angular movement with an angle of rotation around an axis (X) provided at least generally perpendicular to the top and bottom sides of the fastening unit, and

a touch screen contact part protruding from the bottom side of the fastening unit that is configured to contact the touch screen in a position where at least an angle of the contact position in relation to the axis corresponds to the angle of the user actuation part in relation to the axis, so that movement of the user input unit is detected on the touch screen.

8. (Previously presented) The portable electronic device according to claim 7, further comprising an input determination unit for determining positions of input from a user.

9. (Previously presented) The portable electronic device according to claim 7, wherein the fastening unit is rotatably connected to the body.
10. (Previously presented) The portable electronic device according to claim 9, wherein the body further comprises a fastening unit sensing device configured to sense if the fastening unit is in position for providing inputs from the movement input device on the touch screen.
11. (Previously presented) The portable electronic device according to claim 7, wherein the device is a mobile phone.